PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/007879 01.06.2004 10.06.2003 International Patent Classification (IPC) or both national classification and IPC B41J2/05 Applicant CANON KABUSHIKI KAISHA 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer** European Patent Office - P.B. 5818 Patentlaan 2

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/007879

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_	В	ox N	o. I Basis of the opinion						
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.								
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).									
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application necessary to the claimed invention, this opinion has been established on the basis of:									
a. type of material:									
			a sequence listing						
			table(s) related to the sequence listing						
b. format of material:									
			in written format						
			in computer readable form						
c. time of filing/furnishing:									
			contained in the international application as filed.						
			filed together with the international application in computer readable form.						
			furnished subsequently to this Authority for the purposes of search.						
3.		na co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.						
4.	Additional comments:								

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/007879

Box No. II Priority										
1.	The following document has not been furnished:									
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).									
\Box translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66										
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.	☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	. Additional observations, if necessary:									
	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Statement									
	Nove	elty (N)		Yes:	Claims	3				
				No:	Claims	1,2,4-8				
	Inve	ntive st	ep (IS)	Yes:	Claims	.3				
				No:	Claims	1,2,4-8				
	Indus	strial ap	oplicability (IA)	Yes:	Claims	1-8				
				No:	Claims	·				
2.	Citat	ions an	d explanations							

see separate sheet

Re Item V.

1. The following documents are referred to in this communication:

D1: US 6 435 668 B1 (BARBOUR MICHAEL J ET AL) 20 August 2002 (2002-

08-20)

D2: EP 1 266 758 A (CANON KK) 18 December 2002 (2002-12-18)

The application does not meet the requirements of Article 6 PCT, because claims 5 to 8 are not clear. These claims are drafted as independent claims but they all contain all the features of independent claim 1. These claims are therefore considered dependent on claim 1.

- 3. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1,2,4-8 is not new in the sense of Article 33(2) PCT.
- 3.1 Document D1 discloses (the references in parenthesis applying to this document):

An ink jet printhead substrate(410) on which are mounted electrothermal transducers(416) for generating thermal energy utilized to discharge ink and driver circuits for driving said electrothermal transducers, comprising a logic circuit (fig. 31) for outputting a block selection signal (3120) and an element driving signal (DATA), which are for each electrothermal transducer in a selected block, at a second voltage amplitude level based upon an input signal of a first voltage amplitude level (thanks to the AND gate 3125 and the Level shifter 3130); and a driver circuit (3110) for driving the electrothermal transducers in block units based upon the block selection signal and element driving signal from said logic circuit.(claim 1)

- 3.2 Document D1 discloses also all the features of claims 2,4-8.
- 3.3 Document D2 discloses all the features of claims 1,5-8.